





Ultrafuse® ABS Fusion+

Efficient Engineering-filament Printing – for non-print Engineers

Ultrafuse® ABS Fusion+ is an easy-to-print engineering material and enables a much more efficient printing process. Meaning 3D printing operators will spend less time tinkering and more time exploiting the full potential of your 3D printing rig. To top it off, Ultrafuse® ABS Fusion+ adheres to water-soluble support – no more hassle with chemicals, just dissolve your support in water after printing! The 3D printing community has so far considered ABS an unforgiving material: Now, thanks to the unique properties of ABS Fusion+ you can look forward to a high success rate with greatly improved dimensional stability.

Benefits at a Glance

- Easy to print
- Direct printing on heated glass or print bed surfaces
- High heat resistance
- Adheres to water soluble support

Example Applications

- Jigs and fixtures
- Automotive parts

Material Properties

| Tensile Strength (MPa) | 17.9 (ZX), 29.5 (XY) |
|--|------------------------------------|
| Flexural Modulus (MPa) | 878(ZX), 1133 (XZ), 1406 (XY) |
| Elongation at Break) | 2.1% (ZX), 10.9% (XY) |
| Impact Strength Izod notched (kJ/m²) | 2.2 (ZX), 38.4 (XZ), 26.4 (XY) |
| Impact Strength Izod unnotched (kJ/m²) | 6.6 (ZX), 131.1 (XZ), 73.1 (XY) |
| HDT @ 0.45 MPa | 91 °C |

Printing Guidelines

| Nozzle Temerature | 240-260 °C |
|----------------------|--------------------|
| Bed Temperature | 100-120 °C |
| Fan Speed | 0 % (max. 25 %) |
| Bed Adhesion | clean with ethanol |
| Print Speed | 40-80 mm/sec |
| Top/Bottom Thickness | 0.8-1.0 mm |
| Layer Height | 0.1-0.2 mm |

The product data is provided in good faith and represents typical properties based on our current knowledge and experience; these data are not to be construed as specification limits or minimum values. Product properties may be changed without notice. This document does not create any liability, warranty or guarantee of product performance. It is the buyer's responsibility to determine the suitability of Ultrafuse® products for the intended application.



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Project Reference Ten Kate Racing

- Description of the project & challenge: Their pursuit
- Our solutions and added value for the customer: